

LIST OF CURRENT CLAIMS

Claim 1 (Previously Presented). A compressor, containing a compressor element, and comprising: a rotor chamber connected to an inlet pipe and an outlet pipe; a reservoir in communication with the outlet pipe; a pressure regulating system including an inlet valve associated with the inlet pipe; a piston connected to the inlet valve and which is movable in a cylinder to open and close the inlet valve without the use of a spring acting on the piston; a bridge bridging said inlet valve and in which, between the inlet pipe and the rotor chamber, are successively mounted a gas stream limiter and a non-return valve which only admits gas into the rotor chamber; a gas pipe connecting the reservoir to a part of the bridge situated between the gas stream limiter and the non-return valve; and a relief valve associated with said gas pipe, wherein the piston is a double-acting piston which divides the cylinder into first and second closed cylinder chambers; the first cylinder chamber, on a first side of the piston facing away from the inlet valve, is connected to a part of the rotor chamber located near the inlet valve via a first pipe, wherein the connection is always open; and on a second side of the piston, the second cylinder chamber is connected to a part of the rotor chamber situated near the inlet valve and to the non-return valve via a second pipe.

Claim 2 (Previously Presented). The compressor according to claim 1, wherein the first pipe connecting the first cylinder chamber on the first side which is turned away from the inlet valve to a part of the rotor chamber situated near the inlet valve forms the connection between the piston and the inlet valve.

Claim 3 (Currently Amended). The compressor according to claim 2, wherein the connection between the piston and the inlet valve comprises a stem provided with a duct extending over its an entire length of the stem.

Claim 4 (Previously Presented). The compressor according to claim 1, wherein the relief valve comprises a pneumatic valve which is equipped with a spring and which is connected by a pipe which is directly connected to the reservoir and a control line which is also connected to said reservoir via a control valve.

Claim 5 (Previously Presented). The compressor according to claim 4, wherein the control valve is an electromagnetic valve.

Claim 6 (Previously Presented). The compressor according to claim 1, wherein the inlet valve includes a housing forming a common housing with the cylinder.